

Cartridge Heater

Can be fabricated as per requirement in different diameters lengths & supply voltage (from 12 to 460 volts), with or without thermocouple Having variety of terminal types (leads, screw type or pin type) Heater sheath materials depends upon temperature requirement (may be of incoloy, inconel stainless steel or brass)

Ribco: Low watt density cartridge heater in Brass or Stainless Steel tube sheathed refractory and high grade powder insulated heater provided with 8" Long wire or terminals.

Uses: In Dies Moulds, Flatens, Revolving Rolls, Plastic Injection and Extrusion Barrels, Carton Making Machines & Shoe Making Machines etc.



■ Low watt density Cartridge Heater



■ High Medium Watt Density Cartridge Heater

Ribco: High and medium watt density cartridge heater are manufactured using high-quality material which guarantees its good operating performance in extreme conditions.

Major areas of use are Tools Heating in Plastics-Plants, Packaging Machines, Foundry-Technology, as well as Medical Devices.

We offer you standard sizes with more than 20 different diameters ranging from 6.0 mm to 30 mm and lengths from 25 mm to 600 mm. The heating power of these cartridge heaters ranges between 50 and 4000 watts.

Note:

It is advisable to use high Watt density heater through thyristor Controller



■ L Shape Cartridge Heater



■ Square Pipe Cartridge Heater

Ribco: Unique D-section design ensure better surface contact in the groove when the heater is energised in Incoloy/Stainless Steel Tubing

Uses: Shell Core moulding machines, Plastic Injection Moulding Machines, Turbine Bolt Heaters etc.

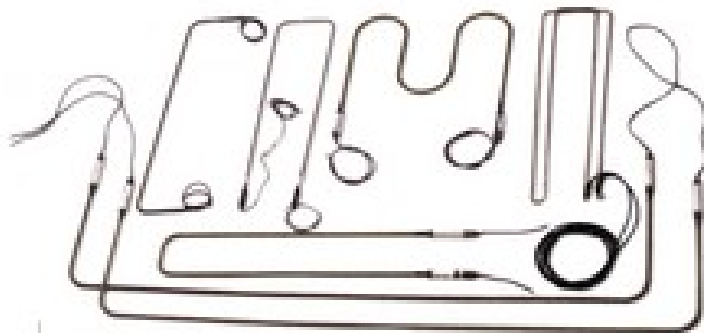


■ D-Split Cartridge Heater

NOTE: Special Heaters can also be designed and supplied in accordance to the requirement of the customer, for which customers are requested to provide detail of dimensions with sketch or sample of the heating element along with input voltage and required wattage.

The description of the sheath of the tube with the preferences and the application of the heating element.

Defrost Heaters



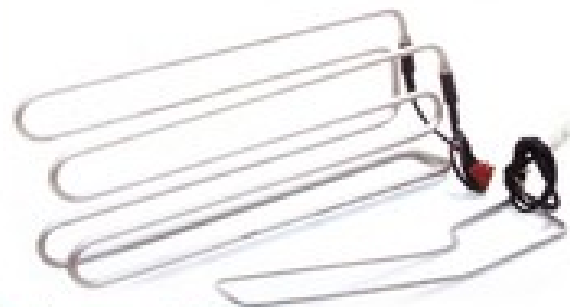
▲ ■ Stainless Steel Electric Tube Defrosting Heater

Ribco Tubular Defrosting Heater in Chrom-Nickel Steel Tube Sheathed Heating Element compacted with high grade insulation powder for better transmission. Moulded silicon seal head on its two terminal ends and lead out wire ensures high level of safety which guarantees electrical insulation.

Ribco offers different heating section diameters from 6 mm to 10.8 mm to insure high thermal conductivity and easy installation.

Apply to rated voltage bellow 380V, 50-60 Hz, related humidity < 90%, defuse heat after conduct electricity in an environment temperature of -30°C - + 50°C. It is generally used in refrigerator, defrosting and other electric appliance.

Ribco Aluminum Tube Heater are made in pipe dia. 6.3mm. Apply to rated voltage bellow 250V, 50-60 Hz, related humidity < 90%, defuse heat after conduct electricity in an environment temperature of -30°C - + 50°C. It is generally used in refrigerator, defrosting and other electric appliance.



▲ ■ Aluminum Tube Heater



▲ ■ Aluminum Foil Electric Heater

Ribco Aluminum Foil Electric Heater in aluminum foil as carrier heat conductor, glue heat wire to aluminum foil using subsidiary glue. Aluminum foil electric heater has two types : one is two layer aluminum glue type, the other is single layer aluminum foil melt type. It has advantages as cheap price, long life, safe use, equal heat conduction, moisture & water proof.

Apply to rated voltage bellow 380V, 50-60 Hz, related humidity < 90%, defuse heat after conduct electricity in an environment temperature of -30°C - + 50°C. It is generally used in refrigerator, defrosting and other electric appliance.

Ribco PTC ceramic piece or heating wire to be used as heating body, column ceramic or stainless steel to be used as its shell. Mgo to be filled between the heating body and the shell.

Usually designed between 27W -47 W.
Power deviation +5% to 10 % at rated voltage.



▲ ■ Insertion Heater for Crankcase and other Heat Appliances

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Infrared Heater

Infrared heaters are the most preferred source of heat when rapid response is needed.

Thermoforming & thermo-welding machines, Industrial drying, curing processes of various types where continuous heating is required.

Ribco Short Wave Infrared Lamp emits Infrared heat which is transmitted directly in the form of electromagnetic rays, at a velocity of approx. 300,000 km / sec. i.e. at the speed of light. It is therefore not only the "faster form of heat", but is also suitable for particularly demanding applications such as vacuum technology and clean room conditions. Infrared heat is particularly economical on energy compared to other heat sources because it acts quickly, directly on products. Short Wave IR emitters are suitable for all applications in which the attainment of high temperatures in the shortest possible time is what counts.



■ Short Wave Infrared Heater



■ Medium Wave Quartz Infrared Heaters

Ribco Medium Wave Quartz Infrared Heater consists of a helically wound resistance coil housed in a pure vitreous silica fused quartz tube. The quartz tubing is terminated with specially designed insulating caps which are securely fastened to the quartz tube with high temperature cement providing excellent support to the power connecting termination. Quartz Heaters are designed to be used in a horizontal position only. Quartz Heaters are available in various diameters like 8, 10, 12, 15, 19 mm & length upto 2000 mm. Produces medium wavelength radiation of approx. 2.55 microns with maximum watt density 30 watt per Sq. inch & Max. surface temperature 870°C.

Ribco Single/Twin Tube Quartz In Emitters with Gold Coating : Gold plating is done on quartz tube over 1800. These heaters reflect the radiant energy through the operating area any, improving element efficiency by as much as 20% compare to without gold plating heater. Energy cost saving are realized. Reflectors are often not needed. Surrounding works area temperatures are cooler, These heaters are also available with or without gold plating.

Ribco MW Quartz IR Heating Module : A resistance wire is enclosed in a small diameter quartz tube running parallel to each other and mounted in a special housing. The two sizes are designed to be installed in the same dimensional spacing as the ceramic infrared elements. IR heating modules half (62 mm x 125 mm) are available in different wattage from 125 to 650 watt and IR heating full module (62 mm x 248 mm) are available from 250 to 1000 watt.



■ Ceramic Sealed Infrared Heater

Ribco Ceramic Sealed Infrared heater emits radiant energy is transported throughout space by electro magnetic waves without the need of a conductive media. Consequently heat can be delivered in concentrated areas at very fast rates. IR heaters provide solutions where conventional heat sources are not practical.

Max. Watt density : 44 W/Sq. inch., Max. temp. up to 800 Deg. C.

Wave length : 3 to 4 microns. Special ceramic body, medium wavelength radiation, emitting external surface. Can be made in curved or flat shape as per following size :

(in mm) 245 x 60 - 250 W to 1 KW

122 x 60 - 125 W to 500 W

122 x 122 - 250 W to 1 KW

70 x 60 - 150 Watts.

Available with built-in thermocouple with fixing chips for easy installations.

Ceramic/Bobbin Heaters

Porcelain Heater are made of helically wound Nickle Chrome resistance wire precisely stretched and strung through circular ceramic having 6/8/12 No. of holes and forming a rode like structure fixed with the Stainless Steel rod

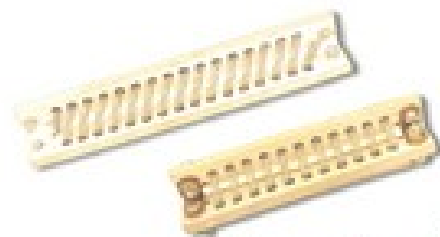
Ribco: Porcelain heaters are available in various diameters and lengths as per customers' specification. However the standard diameters are from 8mm OD to 75mm OD. They can be designed for vertical as well as horizontal installation with required heating and non-heating zones.

Heaters are widely used as immersion heaters or as air heater selecting appropriate sheath materials for heating various types of chemicals, oils & water or air & gases.

Max. Watt density : 30 W/Sq. inch.
Max. Surface temp. 400 Deg. C.



■ Porcelain Heater



■ Ceramic Cross Heater

Ribco: Unique ceramic cross heaters are available in two standard sizes & can work on voltage from 110 V to 440 V and wattage from 250 W to 4800 W.

Best for hot air gun where temperature go upto 500°C

Ambedded Ring Heater and Strip Heater

Ribco: Embedded Ring Heaters are available in eight convenient sizes. Consist of MgO insulated coil with terminal studs. Being sheathed in both side, it has very little residual heat. Used where chances of falling liquid on it is more and where atmosphere contains more humidity.

Max. Watt density 58 W/Sq. inch
Max. surface temp. 650°C



■ Ring heater



■ Embedded strips heater

Ribco: Embedded Strip Heater is rectangular section heater, insulated with compacted MgO for quicker heating & 7 better life span.

Max. Watt density 40 W/Sq. inch and Max. surface temp. 650 Deg. c.

Uses : Air Heating, Dryers, External Heating for Tanks & Vessels.

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An ISO 9001:2000
Certified Company

HEATING ELEMENTS & THERMOCOUPLES

SINCE 1962



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Ceramic Band Heaters and Power Saving Heaters

Ceramic Band Heater are made of helically wound Nickel Chrome resistance wire precisely stretched and strung through steatite ceramic cores forming a flexible heating mat. It is then placed in flexible stainless steel housing with ceramic fibre insulation. These heaters are very flexible and can be fitted easily.

Ribco Heater Cooler Assembly is the most efficient and economical air-cooled ceramic and heater specifically designed for the blower air-cooling process/applications on extrusion machineries. Heater band is 60% open by perforated metal sheet, which ensures maximum surface exposure for better cooling. The heater band is covered with blower cover for mounting the blower. An advantage of air cooled over liquid cooled operation includes low cost, easy replacement, low maintenance, no leakage problem, uniform temperature control and maximum cooling efficiency.

■ Heater Cooler Assembly for Extrusion Machines



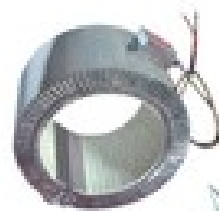
■ Ceramic Band Heater

Ribco Ceramic Band Heaters are specifically designed and engineered to meet the ever increasing demand for energy conservation and to improve operation efficiency. The continually increasing of the technological developments in plastic processing requires machines components ever more reliable. Ceramic band heaters are new generation of electric heaters which tops among those accessories of primary importance for a machine to work efficiently.

Uses : Plastic Processing Machineries, Injection And Blow Moulding, Extrudes.

Ribco Power Save Heaters are specially designed and engineered to meet the ever increasing demand for energy conservation and to improve operational efficiency, capable of generating higher temperature essential to process today's high temperature resins.

Energy conservation is achieved by using thick ceramic fiber insulating blanket on surface increasing the overall outer diameter by 2" power consumption up to 30% because of low thermal conductivity of the ceramic fib. insulation, the external surface temperature of power save band heater is approximately 80°C while running the inside surface temperature at 300°C.



■ Power save Ceramic Band Heater



■ Spare Power save Jacket



■ Power save Mica Band Heater

Ribco Thermocouples are specially made under stringent quality conditions. Available for all possible applications and can be made to custom specifications and also can be supplied with calibration certificates and accessories in plain, bayonet, washer, leaf and ring type etc.

Types: J,K,T,E,R and register sensor (PT-100).



■ Thermocouple

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Domestic and Industrial Tubular Heating Elements

Tubular heating elements sheathed in Copper, Stainless Steel, Bundy, Incoloy or Titanium tubing of any shape and size for all makes of water, oil & air heaters for appliances.



Ribco Long Life tubular heater : in Copper, Stainless Steel, Bundy, Incoloy, Brass, Tubular sheathed heating element compacted with high grade insulation powder for better transmission of heat for different commercial applications.

Use : Instant and storage water heaters, Iron, Sandwich Toaster, Ovens (OTG), Roti Maker, Jug Kettles, Sterilizers, Waffle Bakers, Tandoors, Washing Machines, Dish Washer, Salamander, Defroster etc.



■ Commercial Water Heater

Ribco Commercial Water Heater : In Copper/Stainless Steel tubular sheathed, brazed with Brass Range nickel chrome plated provided with earthing terminal and a bacolite/plastic/metalic cap for protection of terminals.

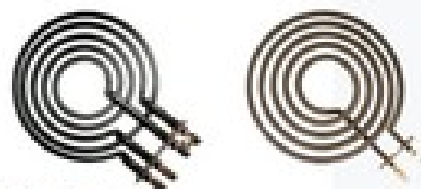
Use : Light duty (intermittent) Boilers, Washing Machines, Geysers, Coffee Urns, Sterilizers and for other Commercial purposes.

Ribco Industrial Water Heater : In Copper/Stainless Steel tubular sheathed heating element, brazed with Brass Range nickel chrome plated provided with earthing terminal and a bacolite/plastic/metalic cap for protection of terminals.

Uses : Heavy duty industrial hot Water Baths, Water Jacketed apparatus, Side arm circulating process Tanks, Steam Generator etc.



■ Industrial Water Heater



■ Coil Heater

Ribco Coil Heater : In Stainless Steel /incoloy/inconel tubular sheathed, coiled with automatic machine and fitted mild steel/ Stainless Steel with easy plug in brass terminals.

Uses : Used in Hot Plates and Cooking Range, Ovens, Conveyers etc.

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